

**NATIONAL ECONOMIC
RESEARCH ASSOCIATES**

875 NORTH MICHIGAN AVENUE, SUITE 3650
CHICAGO, ILLINOIS 60611
TEL: 312.573.2800 FAX: 312.573.2810
INTERNET: <http://www.nera.com>

nera
Consulting Economists

COMED EXHIBIT _____

**STATE OF ILLINOIS
BEFORE THE
ILLINOIS COMMERCE COMMISSION**

Commonwealth Edison Company

Petition for declaration of service
currently provided under Rate 6L to 3
MW and greater customers as a
competitive service pursuant to Section
16-113 of the Public Utilities Act and
approval of related tariff amendments.

Docket No. 02-_____

DIRECT TESTIMONY OF KARL A. MCDERMOTT

Vice President, National Economic Research Associates

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July 2002

1 **PREPARED DIRECT TESTIMONY**

2 **OF**

3 **KARL A. MCDERMOTT**

4 **I. QUALIFICATIONS, PURPOSE, AND CONCLUSIONS**

5 **Q. PLEASE STATE YOUR NAME.**

6 A. My name is Dr. Karl A. McDermott. I am a Vice President of National Economic Research
7 Associates, Inc. ("NERA"). My business address is 875 North Michigan Avenue, Suite
8 3650, Chicago, Illinois 60611.

9 **Q. PLEASE STATE YOUR QUALIFICATIONS.**

10 A. I received a B.A. in Economics from Indiana University of Pennsylvania, a M.A. in Public
11 Utility Economics at the University of Wyoming, and a Ph.D. in Economics at the
12 University of Illinois at Urbana-Champaign.

13 From April 1992 until May 1998, I served as a Commissioner at the Illinois Commerce
14 Commission ("ICC" or the "Commission"). Prior to that, I was founder and served as the
15 President of the Center for Regulatory Studies ("CRS"), a not-for-profit company that was
16 located on the campus of the Illinois State University. Before founding the CRS, I worked
17 in numerous capacities in the regulatory industry including positions on the staff of the
18 ICC, the National Regulatory Research Institute ("NRRI"), and Argonne National
19 Laboratory. Since leaving the ICC, I have testified as an expert witness on behalf of
20 electric, gas, and telecommunications firms. A copy of my Curriculum Vitae is attached as
21 Exhibit KAM-1.

22 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

23 A. The purpose of my testimony is to provide, based on my experience as a former regulator
24 and as an economist, a policy perspective on why Commonwealth Edison Company's
25 ("ComEd") Rate 6L, for customers with 3 MW or greater of peak demand, should be
26 declared competitive pursuant to Section 16-113 of the Illinois Public Utilities Act ("Act").

27

28 Based on my experience, I will provide a context for this proposal in the evolution of the
29 electric markets in Illinois. In light of that experience, particularly as a Commissioner at
30 the ICC where I had the responsibility for evaluating a number of similar issues in the
31 electricity, natural gas, and telecommunications industries, some of which I did not vote to
32 approve, and my review of this proposed declaration of certain services as competitive, it is
33 my opinion that ComEd's proposal is justified from both an economic and public policy
34 perspective and will contribute to, rather than hinder, the development of competitive
35 electricity markets in Illinois. Furthermore, both residential and small commercial
36 customers and those customers that would remain on Rate 6L for the time being would be
37 better off when Rate 6L is declared competitive for large customers with peak demand of
38 3MW or greater.

39 As indicated by Section 16-113 of the Act, service to these customers should be declared
40 competitive if reasonably equivalent substitute service is reasonably available at a
41 comparable price from other, unaffiliated providers and ComEd is losing customers, or is
42 likely to lose customers to alternative providers of power and energy. I have evaluated
43 ComEd's proposal with a disinterested, critical eye, and based on that review find that it is
44 reasonable and in the public interest to approve this request.

45 I also discuss some of the factors that I feel act as "safeguards" against any potential
46 unintended consequences associated with declaring this service to be competitive. For
47 example, ComEd will continue to provide bundled electricity services to this customer
48 group for some period of time via its Rate HEP under terms and conditions approved by the
49 ICC. Also, I suggest that the Commission allow this declaration to go into effect as a
50 matter of law as provided for under Section 16-113, given that this procedure gives the
51 Commission flexibility to review or change this determination going forward.

52 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS.**

53 A. Based on my perspective as an economist and former regulator, I conclude that:

54 ■ **The markets to provide power and energy to large customers in ComEd's territory**
55 **are working.** Based on the evidence that I have reviewed and evaluated with respect to the
56 openness to entry into retail markets within ComEd's distribution service territory, I find
57 that the retail generation commodity services provided by ComEd under Rate 6L to
58 customers with 3 MW or greater of peak demand should be declared competitive. All
59 significant regulatory and legal entry barriers have been removed and timely entry is
60 possible at current prices.

61 ■ **Declaring Rate 6L competitive for customers with 3 MW or greater of peak demand is**
62 **timely and necessary.** First, and most important, as a result of the various provisions of
63 the Act, entry into retail generation-related markets is open. Specifically, I am referring to
64 regulated and required access for third-party power and energy to be delivered to retail
65 customers and the wholesale market structure that is evolving in Illinois. Second, there is
66 empirical evidence that ComEd's largest customers are making choices and alternative
67 suppliers are willing to provide energy services to these customers. Third, some of those

68 customers who have not "switched" are actually customers who have made competitive
69 choices in the past. I am referring to special contracts and contracts under Rate CS that the
70 Commission approved because these customers had clear competitive alternatives that
71 could be documented. These factors indicate that market forces are capable of providing
72 services to ComEd's largest customers and that, in the future, the competitive conditions in
73 Illinois are only going to improve.

74 ■ **The Act contemplates that the barriers to competitive provision of power and energy**
75 **will be eliminated.** The purpose of electric restructuring in Illinois was to provide
76 consumers with choices, while recognizing that the transition to efficient and competitive
77 electricity markets would take some time. The reliance on competitive markets, where
78 feasible, has been a hallmark of deregulation efforts in many different industries including
79 electricity. However, the ongoing development of competitive markets require that pricing
80 decisions be left to the greatest extent practicable to the decentralized players in the
81 markets, without the interference of regulatory policies that undermine economic decision
82 making in the marketplace. The problem in this case is that the continued provision of
83 certain tariff services that can be used as fixed price options is, as a matter of regulatory
84 policy, inconsistent with the move to fully competitive markets. Such regulatory policies
85 make it difficult for firms to provide these services on a competitive basis. While initially
86 the policy of keeping these services was designed to soften the transition, it has now
87 become apparent that, at least for the large customers that are the subject of this petition,
88 markets can be relied on to dictate the prices and terms and conditions of commodity
89 electricity service as well as any value-added services. Maintaining a service like Rate 6L
90 in this situation is a barrier to ongoing competitive development that should be eliminated.

91 ▪ **Competition in Illinois has been more successful than in other states and it is time to**
92 **reevaluate some of the "transition policies" that exist in the Act.** The deregulation of
93 the electric industry in the U.S. has proven to be somewhat more complicated than we first
94 imagined. My initial skepticism of retail competition as a proper public policy tool has
95 been reinforced by certain results and lessened by others. Currently, 16 states and the
96 District of Columbia, comprising about 43.5 percent of the U.S. population, have retail
97 competition in place for some (and in most cases all) customers. (States that have
98 implemented electric restructuring for some or all customers include Arizona, Connecticut,
99 Delaware, Illinois, Massachusetts, Maine, Maryland, Michigan, New Hampshire, New
100 Jersey, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Texas, and the District of
101 Columbia.) California, of course, introduced "direct access" retail competition but then
102 moved away from it. The experience in California, however, is not representative of the
103 state of competition in the U.S. and especially not in Illinois. It is clear to me that with
104 respect to ComEd's largest customers, retail competition has been successful and, in fact, so
105 successful that it is now time to remove some of the "transition policies" in order to fully
106 test the markets and how they respond to these policy changes. I am speaking in particular
107 about the role the incumbent utility (in this case ComEd) plays in the marketplace. This
108 proceeding is to, at least for the time being, determine ComEd's role as the provider of
109 power and energy to the largest customers in its service territory. As noted above, the goal
110 of restructuring was always to provide customers with options and create an environment
111 where economics dictated the price of power and energy. The proposal to create a group of
112 customers that are completely reliant on markets for power and energy is a logical next step
113 in the evolution of this marketplace. While it is true that these customers will have the

114 option to choose ComEd's Rate HEP (real-time pricing), Rate HEP is a market-based rate
115 that will provide customers with proper short term signals.

116 ▪ ComEd would continue to provide a real-time pricing service that would be reflective
117 of the short-term wholesale cost of electricity, which is a useful safeguard against
118 unanticipated events. Rate HEP will operate as the "default" regulated service for
119 customers that have 3 MW or greater of peak demand. This service would provide a tariff
120 rate for those customers that wish to continue to take tariff service from the utility, while
121 accommodating the development of competitive alternatives in the competitive
122 marketplace.

123 ▪ Allowing the ComEd's declaration of Rate 6L service for customers with 3 MW or
124 greater of peak demand as competitive to go into effect as a matter of law is also in the
125 interest of electricity customers. Doing so preserves the Commission's options with
126 respect to the reclassification.

127 **II. REGULATION SHOULD BE ADAPTED TO REFLECT CHANGED**
128 **COMPETITIVE CIRCUMSTANCES**

129 **Q. FROM A POLICY PERSPECTIVE, HOW DO YOU RECOMMEND REGULATORS**
130 **DETERMINE WHEN TO DECLARE FORMERLY REGULATED SERVICES TO**
131 **BE COMPETITIVE?**

132 A. As markets that have been historically organized as regulated monopolies are opened to
133 competition, there are two distinct events that should trigger changes in regulation.

134 1. When competition is first made possible in the market, regulation should be
135 immediately adjusted so that it provides neither the entrant nor the incumbent any net
136 advantage on a forward-looking basis.

137 2. When competitive forces effectively constrain the prices of the regulated firm in
138 particular markets, regulation of those prices no longer serves a useful function and
139 should be curtailed.

140 With respect to ComEd's Rate 6L customers with 3 MW or greater of peak demand, we are
141 now at a stage in the evolution of the market where regulatory oversight of pricing policies
142 should be phased out. That is, regulation of these prices no longer serves a useful function
143 and should be curtailed.

144 **Q. PLEASE EXPLAIN HOW THE POLICY CHANGES OVER THE PAST DECADE**
145 **HAVE REDUCED REGULATORY AND LEGAL BARRIERS TO ENTRY INTO**
146 **ILLINOIS' ELECTRICITY MARKETS.**

147 A. As a result of the 1997 Amendments to the Act, entitled the "Electric Service Customer
148 Choice and Rate Relief Law of 1997" ("Restructuring Act"), the F
149 ederal Enérġy Policy Act of 1992; and policies of the Federal Energy Regulatory Commission
150 ("FERC") and ICC, legal and regulatory barriers to entry in the Illinois generation and retail
151 marketplaces have been removed. These policy changes have allowed for non-affiliated
152 third parties to legally provide power and energy over the transmission and distribution
153 systems of the regulated utility to retail customers. Low regulatory and legal barriers to
154 entry mean that competitors can quickly enter the marketplace where there are economic
155 opportunities to do so. The resulting open entry in electricity commodity and retail markets

156 in Illinois benefits consumers by providing increased choices to consumers, which
157 encourages innovation, constrains competitors' ability to raise prices, and encourages
158 competitors to provide a high quality of service. While competition is further along for
159 high-usage industrial and commercial customers than it is for average residential customers,
160 the open entry provided by electric restructuring, along with the development and
161 deployment of new technologies, is rapidly increasing the choices available to all
162 customers.

163 However, the most important implication of the policy modifications discussed above is
164 that the marketplace is open to entry by competitors, so that consumers have choices
165 available to them. In reviewing this matter, it is important to remember that market share is
166 not the same thing as market power. While the historic monopoly structure of the industry
167 makes a large market share for the incumbent unavoidable as the franchise is opened up,
168 policymakers should neither expect this to change overnight nor take this as a sign of
169 market failure.

170 **Q. DO THESE REGULATORY DEVELOPMENTS REDUCE COMPETITORS' SUNK**
171 **COSTS OF ENTRY AND/OR THE RISK THAT ASSETS COULD BECOME**
172 **FORECLOSED FROM REACHING CUSTOMERS VIA TRANSMISSION AND**
173 **DISTRIBUTION WIRES?**

174 A. Yes. A sunk cost is a cost that must be incurred to enter a market and that cannot be
175 recovered if the firm later elects to leave the market. It is generally recognized that
176 industries characterized by relatively high sunk costs are more likely to deviate from the
177 conditions that prevail under competition.¹ An example of a sunk cost is the cost of digging

¹ See Alfred E. Kahn, *The Economics of Regulation*, MIT Press, 1988, Volume II at 119-123 for a detailed explanation of why this is the case.

178 up streets and laying down cable or building poles and stringing wires.² It is
179 unquestionable that the FERC's open-access transmission policies (as articulated in its
180 Order No. 888), coupled with other FERC and ICC requirements, reduces the absolute level
181 of sunk cost a firm needs to incur in order to enter a market. Competitors are now able to
182 acquire generation capacity or build a generation plant and are assured of the availability of
183 interconnection, thereby reducing sunk costs and facilitating various entry strategies.

184 Reducing the sunk costs of entry provides a disciplining force—open entry—that prevents
185 the incumbent from exercising undue influence over prices, regardless of how far
186 competition actually has progressed in the marketplace. There does not have to be any
187 actual marketplace entry by competitors (although there is, in fact, considerable entry) in
188 order to discipline the incumbent's pricing, as long as the prospect that choices will be
189 available to consumers is real and apparent to the incumbent. This condition is satisfied
190 when both entry and exit are relatively open, because any excessive prices or other abuses
191 by an incumbent will attract entrants who will be capable of responding quickly. It is
192 therefore imperative that the ICC take the openness of the retail electricity marketplace into
193 account when determining how to provide regulatory oversight over ComEd.

194 **Q. HOW CAN SWITCHING DATA CONFIRM THAT RETAIL ELECTRICITY**
195 **MARKETS IN ILLINOIS ARE OPEN TO ENTRY?**

196 A. Switching data has to be evaluated carefully because some states provided "shopping
197 credits" to induce customers to switch, and therefore the switching rates observed may
198 simply be an artifact of that regulatory policy (*i.e.*, inefficient competitors may in some
199 cases be gaining market share from more efficient providers). Furthermore, as noted above,

² Note that the cost of poles and wires themselves may only be partially sunk if they maintain salvage value.

200 the lack of switching cannot confirm the absence of competition or imply that the
201 incumbent has market power. However, it is clearly the case that switching has been
202 occurring both in Illinois and elsewhere. As shown below in Table 1, the evidence
203 indicates that considerable switching has already occurred in Illinois, especially in
204 ComEd's service territory. Thus the switching data, in this case, can be used to confirm
205 that entry into Illinois' retail electricity markets is open, and that entry has actually occurred
206 at levels that are relatively robust even compared to states that utilized large incentives via
207 "shopping credits" to induce switching.

Table 1: Switching Rates in Various States

State	Residential	Non-Residential		Total	Total (all)	As of:
		Commercial	Industrial			
California ¹	0.80%			20.80%	13.40%	4/30/02
Illinois ²		25.16%	47.06%		33.48%	5/31/02
Maine ³	<1%	33.00%	81.00%		42.00%	6/01/02
Maryland ⁴	4.20%			15.90%	10.20%	5/31/02
Massachusetts	0.90%			31.99%	22.12%	5/01/02
Michigan	0.00%				1.60%	1/1/02
New Jersey					1.28%	11/30/01
New York ²	5.00%			23.60%	16.20%	1/31/02
Ohio	14.93%	15.03%	10.14%		11.82%	3/31/02
Pennsylvania	6.24%	10.01%	9.39%		8.01%	7/01/02
Rhode Island ⁵					11.60%	3/31/02

- 209 1. California has suspended direct access retroactively to September 20, 2001; customers with direct access
 210 contracts executed before this date may continue.
 211 2. Date is percent of eligible load.
 212 3. Data is for Central Maine Power.
 213 4. Percentage of peak load obligation.
 214 5. Date is reported for Narragansett Electric Company, the distribution utility for most of Rhode Island.

215 **III. RECLASSIFYING RATE 6L FOR CUSTOMERS WITH 3 MW OR GREATER**
 216 **OF PEAK DEMAND IS JUSTIFIED AS A MATTER OF ECONOMICS AND**
 217 **PUBLIC POLICY**

218 **Q. WHY DO YOU BELIEVE THAT THE PROPOSED DECLARATION OF SERVICE**
 219 **AS COMPETITIVE IS TIMELY AND NECESSARY?**

220 A. Movements toward increased wholesale and retail competition in Illinois stem from ICC
 221 and FERC initiatives and particularly the Restructuring Act, as well as additional
 222 amendments to the Act after 1997. From an economist's perspective, the movement toward
 223 increased competition in Illinois requires a commensurate change in regulatory treatment of
 224 bundled sales service. Just as the extent of competition defines a continuum from
 225 monopoly supply to open competition, the regulatory spectrum ranges from strict regulation

226 of earnings, prices, services, and service quality to eventual deregulation of large segments
227 of the industry. As the level of competition changes, a corresponding change in regulation
228 from the current "hybrid" model is necessary to avoid inefficient competition that,
229 unchecked, would reduce consumer welfare.

230 From a regulator's perspective, potential effects on all customers, not just those most
231 immediately affected, both short and long term are to be considered. That is, as the market
232 evolves, there are remaining questions concerning the regulatory treatment of customers
233 that have not had their tariff rates declared competitive. First, as will be discussed below,
234 the market for smaller usage customers will only be enhanced if the natural evolution of the
235 marketplace is allowed to continue by the Commission approving this petition or allowing
236 it to go into effect by operation of law. Second, allowing bundled rates (*i.e.*, Rate 6L) to act
237 as an optional, non-market based procurement method for customers that clearly have
238 alternatives is likely to increase the cost of service applied to the customers remaining on
239 tariffed services. Therefore, the Commission needs to evaluate this proposal as it evaluates
240 any rate proposal based on economics, fairness to all customer classes, and good regulatory
241 policy.

242 **Q. PLEASE BRIEFLY DESCRIBE WHAT YOU MEAN BY A "HYBRID" MODEL.**

243 A. During the early stages of the introduction of retail competition, policymakers have
244 determined that some electricity users may prefer to continue to receive service from the
245 utility. To meet this perceived consumer preference, policymakers in a number of states
246 developed an electric restructuring model that allowed customers to remain on frozen
247 bundled rates or that converted customers that remain with the utility to a default, so-called
248 "standard offer" service that is somewhat similar to the service that had traditionally been

249 provided by the vertically-integrated utility. While this hybrid electric restructuring model
250 is often assumed to be necessary from a transitional point of view, this places regulators in
251 the challenging position of promoting the development of retail competition while the
252 utility continues to charge a regulated price for standard offer service. This introduces
253 economic inefficiencies because the utility price is frozen and does not change as the
254 market price changes, thereby distorting the choices made by customers and potential
255 entrants. I recommend that this approach be phased out for Rate 6L customers with 3 MW
256 or greater of peak demand, though they would be able to take ComEd's market-priced Rate
257 HEP service if they wish to do so. This is consistent with the transitional mechanisms
258 provided for by the Illinois General Assembly.

259 In crafting a transition policy, legislators and regulators must balance concerns about
260 customer familiarity and comfort with tariff choices with the need to minimize the
261 economic inefficiencies inherent in frozen standard offer service. While these initial
262 concerns are important, it is equally important to insure that these trade-offs do not delay
263 the development of competition in wholesale and retail markets. Otherwise, as Alfred
264 Kahn once noted in a different context, we may wind up with a "mixed system" of
265 competition and regulation that "may be the worst of both possible worlds."³

266 **Q. PLEASE EXPLAIN HOW RETAIL ELECTRICITY MARKET REFORM HAS**
267 **AFFECTED THE INDUSTRY IN ILLINOIS.**

268 A. Electric restructuring has required fundamental changes in the organization and regulation
269 of the industry. In particular, the Restructuring Act has reversed long-standing public
270 policy regarding the provision of retail generation commodity service by deciding to rely on

³ See Alfred E. Kahn, *The Economics of Regulation: Principles and Institutions* (MIT Press, 1992), p.xxxv.

271 competitive markets rather than regulation to achieve policy goals. By making the choice
272 of whether or not to use the electric utility to procure electricity for the customer a
273 voluntary one, policymakers were able to “defuse” at least some of the pressures on the old
274 regulatory system, thereby allowing the state to move to a less centralized system, where
275 customers could choose for themselves their supplier of the electricity commodity. With
276 electric restructuring, electric customers are allowed to choose their electricity provider.
277 The incumbent utility provides distribution and transmission services, and, in many cases, a
278 *tariff service* as well. Stranded generation costs have been addressed, rates have been
279 unbundled to provide open access, social programs have been funded on a competitively-
280 neutral basis, and a transition to full retail competition has been mapped out. While
281 skeptics of retail competition, including myself, doubted whether focusing on retail
282 competition was the appropriate response while wholesale transaction reforms were still
283 being implemented, policymakers in a number of states have used retail competition as one
284 component of the major—and interrelated—sets of reforms that electric restructuring
285 represents.

286 **Q. WAS THE RESTRUCTURING ACT MEANT TO ENCOURAGE COMPETITION**
287 **SOLELY FOR ONE CLASS OF CUSTOMERS?**

288 A. No. The Restructuring Act notes that “a competitive wholesale and retail market must
289 benefit all Illinois citizens.”⁴ Nevertheless, the Restructuring Act also recognized that
290 “...the State has a continued interest in assuring that the safety, reliability, and affordability
291 of electrical power is not sacrificed to competitive pressures, and to that end, intends to
292 implement safeguards to assure that the industry continues to operate the electrical system

⁴ Section 16-101A (d) of the Restructuring Act. 220 ILCS 5/16-101A(d).

293 in a manner that will serve the public's interest."⁵ Among other safeguards in the Act, retail
294 competition was introduced in stages with services to large customers becoming available
295 well before retail competition was introduced for residential customers and utilities retained
296 the sole responsibility for providing services to all customers at fixed prices (subject to
297 certain limitations) until such time as it could be shown, in a proceeding such as this one,
298 that those services no longer were required for the Act's goals to be met.

299 **Q. PLEASE DESCRIBE THE POLICY TOWARD COMPETITION ENVISIONED IN**
300 **THE RESTRUCTURING ACT.**

301 A. The Illinois General Assembly devised a plan whereby competition would be slowly
302 introduced through incremental changes while allowing incumbent utilities the opportunity
303 to reorganize their businesses in response to this new environment. While this plan did not
304 move as quickly to reinvent the market structure as plans in California, New York,
305 Massachusetts did, it did allow for a "wait and see" approach that has turned out to be a
306 good hedge against the uncertainties surrounding electricity restructuring. Illinois has
307 avoided the rate increases seen in California and other states, and has avoided the
308 inefficient entry that has plagued states such as Pennsylvania.

309 However, the plan also provided for incremental changes as the market evolves and the
310 sophistication of market participants increases. One of those changes is the policy put forth
311 in Section 16-113 that allows for the removal of the fixed-priced tariff rates from the
312 market for those customers that have sufficient market-based alternatives.

313 **Q. YOU NOTED THAT THE RESTRUCTURING ACT IMPLEMENTED**
314 **COMPETITION IN THE ILLINOIS ELECTRIC MARKET IN PHASES WITH**

⁵ Section 16-101A (c) of the Restructuring Act. 220 ILCS 5/16-101A(c).

315 **LARGE USE CUSTOMERS OFFERED THE FIRST OPPORTUNITY TO TEST**
316 **THE COMPETITIVE WATERS. HOW COMMON IS THAT APPROACH TO**
317 **DEREGULATION?**

318 A. This is a common approach in many industries and across many jurisdictions. In both the
319 telecommunications industry and the natural gas industry large volume users were generally
320 the first to be provided a choice of suppliers. For example, in Illinois, large natural gas
321 users were provided "transportation" service many years prior to the introduction of these
322 same services for smaller use customers.⁶ Telecommunications competition has also
323 evolved along these same lines for both long-distance and local exchange services. Large
324 users were the first to be provided "bypass" services by competitive long-distance carriers
325 and also the first to take advantage of local exchange services provided by competitive
326 carriers. In part, it was this very process that prompted Congress to pass the
327 Telecommunications Act of 1996 to allow the competitive process to expand beyond the
328 large and special use customers to a broader spectrum of consumers and services. Without
329 the proven ability of competitors to serve the large volume markets it is unlikely that
330 competition would have been contemplated for the small volume customers in either the
331 long-distance or local exchange markets. As for electricity, in many of the jurisdictions that
332 I am familiar with, both domestically and internationally,⁷ competition has evolved along
333 these lines and provided for large use electric customers to choose first with smaller
334 customers following at varying intervals. Even in those states that introduced retail
335 competition all at once, regulators were very careful to build in protections (e.g., some form

⁶ Transportation rates are analogous to the electric delivery services. These tariffs allow third parties to use the local gas company's pipes to deliver gas commodity to retail customers.

⁷ For example, the 1996 European Commission Electricity Directive (96/92/EC, OJ L 27, 30.1.1997) adopted a market liberalization plan that allowed the largest users to have open access prior to smaller users.

336 of the hybrid electric restructuring model) so that small residential were not forced to take a
337 nonregulated, competitive service. These transitional policies are clearly no longer needed
338 for ComEd customers with peak demand of 3 MW or greater that take service under Rate
339 6L.

340 **Q. ARE THERE ANY ECONOMIC OR REGULATORY REASONS WHY SUCH A**
341 **PHASE-IN MAY BE APPROPRIATE?**

342 A. There are several reasons why this approach has been favored. First, the economics of
343 providing a commodity service, such as electricity or gas, tend to favor the large volume
344 users because commodities tend to be priced such that margins are extremely thin. Large
345 volume users are more likely to obtain large (absolute) savings due to the large amount of
346 usage relative to smaller use customers. Large use customers also tend to be industrial or
347 very large commercial entities that recognize energy costs as an important part of their cost
348 of doing business and are therefore very sensitive to price and risk. This makes these
349 customers attractive to alternative providers in terms of the "wholesale" nature of their load
350 and the potential value-added services such as energy management, price hedging products,
351 etc. that these providers can market to this customer class. Furthermore, there are fixed
352 "transactions costs" associated with obtaining customers, such as advertising and
353 marketing, that can most easily be spread over a large number of units sold and hence
354 alternative suppliers are most likely to compete for the larger volume users first.

355 Second, from a regulatory viewpoint, large users are more likely to be sophisticated buyers
356 of many inputs into production and are, therefore, more likely to be sophisticated buyers of
357 power and energy. Regulators and legislators tend to provide significantly more flexibility
358 to these customer classes, including allowing them first access to the open market. This

359 proposal is a logical result of the process of restructuring and deregulation of the electric
360 market.

361 Last, from a public policy perspective, competition has been offered as a replacement for
362 regulation where competition serves the public better than regulation. In order for
363 competition to efficiently serve the public, competition has to be allowed to develop and
364 competitors need to be allowed to develop the expertise that will allow them to effectively
365 provide energy services to a larger and larger group of customers. However, with services
366 such as Rate 6L to fall back on, customers will only rely on the competitive market when
367 the market price falls below this non-market based tariff price. This is not true competition
368 in the common meaning of the term, rather it is a form of managed competition that will
369 only serve to hurt customers in the long-run by denying competitors the opportunities to
370 achieve economies by learning-by-doing.

371 ~~Q. DID THE RESTRUCTURING ACT CONTEMPLATE EVENTUAL~~
372 ~~DEREGULATION IN THE GENERATION COMMODITY AND RETAIL~~
373 ~~MARKETS?~~

374 ~~A. Yes. In passing the Restructuring Act, the Illinois legislature sought to establish a~~
375 ~~deregulatory framework in Illinois. A principal goal of such a pro-competitive policy is to~~
376 ~~permit market forces to substitute for, and not simply add to, regulation in order to obtain~~
377 ~~the maximum benefits of competition.~~

378 **Q. PLEASE DESCRIBE HOW IMPLEMENTATION OF COMED'S PROPOSAL IN**
379 **THIS PROCEEDING WILL BENEFIT ILLINOIS' ELECTRICITY MARKETS.**

380 A. This proposal will benefit both the demand side of the market and the supply side of the
381 market as customers begin to be provided more appropriate price signals and resources are
382 free to be reallocated according to economic principles.

383 **Q. SPECIFICALLY, HOW DOES THE COMED PROPOSAL STIMULATE THE**
384 **DEMAND SIDE OF THE ELECTRIC MARKET?**

385 A. There are two issues here. First, declaring Rate 6L competitive for this customer group will
386 begin to stimulate additional demands for wholesale power and energy. This is critically
387 important as competitive markets require not only multiple sellers but also multiple buyers.
388 This proposal will create additional demand for wholesale power and will help promote the
389 development of short-term (*i.e.*, spot and day-ahead) markets as well as the longer term
390 contracts markets. Second, the proposal allows for customers to receive a hourly energy
391 pricing service from ComEd through its Rate HEP. To the extent that customers find this
392 rate attractive, they will be provided the correct signals to remove load from the system
393 when prices are high and increase consumption when prices begin to fall.

394 **Q. TO WHAT EXTENT DO CUSTOMERS NEED OPERATING RISK MITIGATION**
395 **TOOLS BEFORE SUCH PROPOSALS MAKE SENSE?**

396 A. Risk mitigation tools such as forwards and options and other price insurance products need
397 a functioning market in order to develop. Currently, these types of products are being
398 provided to some extent by the market place. More would be expected to develop as
399 competition continues to evolve. For the large customers with 3 MW or greater of peak
400 demand that are of interest here, both standardized and custom products are available,
401 relating to: (1) products aimed at helping electricity users meet basic energy needs (*e.g.*,
402 large energy users can purchase standardized "5 by 16" strips of energy); (2) hedging and

403 normalizing price volatility (*e.g.*, protecting against higher-than-normal summer prices; (3)
404 providing sophisticated energy management services; (4) allowing customers to aggregate
405 loads into power purchasing pools; and (5) meeting the other energy-related needs of
406 energy users. For large customers in ComEd's distribution service area, alternatives are
407 already available, which would expand if sufficient demand develops. This proposal helps
408 bridge the gap between being too cautious and delaying the evolution of the market and
409 being overly permissive and creating conditions that could harm customers.

410 **Q. PLEASE EXPLAIN HOW THIS PROPOSAL WILL BENEFIT THE SUPPLY SIDE**
411 **OF THE MARKET.**

412 A. As a result of this proposal, capacity that would have been committed to the provision of
413 firm service under a regulated Rate 6L tariff will be free to be resold. Creating this
414 additional "pool" of capacity improves the liquidity of the market by providing capacity
415 that is likely to be more responsive to market forces. For example, capacity that is freed as
416 a result of this proposal can be sold in the forwards markets to marketers or other
417 intermediaries that can use that capacity to provide "physical" hedging in their portfolio of
418 generation. This allows for market participants to create resource portfolios that have both
419 physical and financial aspects to them in order to serve their customers in a cost effective
420 manner.

421 **Q. SOME OF THIS CAPACITY IS CONTROLLED BY COMED'S AFFILIATED**
422 **GENERATION COMPANY. DO YOU BELIEVE THIS IS A CAUSE FOR**
423 **CONCERN?**

424 A. In this case, I do not believe it is problematic. There are two aspects of this question that
425 lead me to this conclusion. First, is whether, as a matter of regulatory policy, this should
426 concern the Commission. ~~This question has been answered by the Illinois General~~

427 ~~Assembly. In re-writing the Act, the General Assembly made a conscious decision to allow~~
428 ~~the incumbent utilities, or their affiliated generation companies, to maintain a strong~~
429 ~~presence in the local electric markets, if they so choose.~~ Second, in the case of ComEd and
430 the Northern Illinois generation market, Exelon is only one of multiple generation owners.
431 The ownership of generation in Northern Illinois has been dramatically altered by ComEd's
432 voluntary decision to divest capacity, as approved by the Commission. The ownership
433 figures are detailed in the testimony of ComEd witnesses William McNeil and Jennifer
434 Sterling. Exelon will continue to provide a necessary portion of the generation that will
435 help to maintain liquid markets and promote competition between these generation owners.

436 **Q. WHY DO YOU BELIEVE THAT IT IS IMPORTANT TO REDUCE RETAIL**
437 **REGULATORY CONSTRAINTS OR MAKE THEM AS SYMMETRICAL AS**
438 **POSSIBLE?**

439 A. An important purpose of the Restructuring Act is to support the phase-out of regulation for
440 all tariff services with competitive alternatives. It is important to remember that even
441 imperfect competition is likely to better regulate price than regulation. As that competition
442 does emerge, regulators need to recognize that electric restructuring, and the ICC's
443 implementation of it, have done their job and that society can rely solely on the
444 marketplace, rather than regulation.

445 As these conditions are demonstrably met with respect to large industrial customers with
446 peak demand of 3 MW or greater, the ICC should ensure that all companies have the
447 freedom to offer services that are responsive to customer demand, including contract
448 pricing. Entrants already are able to tailor their prices and service offerings to the demands
449 of particular customers and customer classes. While some customers may wish to retain

450 retail tariff service, ComEd's Rate HEP is sufficient to ensure that large customers that
451 wish to retain service with ComEd can do so.

452 **Q. WHY SHOULDN'T A UTILITY BE REQUIRED TO PROVIDE A BROAD-BASED,**
453 **REGULATED, FIXED PRICE GENERATION COMMODITY SERVICE TO**
454 **CUSTOMERS THAT ARE SHOWN TO HAVE ADEQUATE COMPETITIVE**
455 **ALTERNATIVES?**

456 A. Once entry is open to customers and they have begun to take advantage of choices that are
457 available to them, there is no longer a need for the utility to provide regulated generation
458 commodity services on a bundled, fixed price basis. Indeed, doing so considerably muddies
459 the waters from the standpoint of demand response by consumers and can be detrimental to
460 the economic conditions that guide entry by alternative suppliers. It would be difficult for
461 competitors to develop and market value-added services if the utility indirectly provides
462 these services as part of a regulated tariffed service.

463 The "hybrid" electric restructuring model is only a transition mechanism. The result of this
464 approach is a model of competition in which the regulatory determined price is more
465 important than the price signals inherent in the prices of competing retail service providers.
466 Before regulators and policy makers designed these markets, it would have been difficult
467 (to say the least) to imagine any retail market in which neither realized wholesale prices nor
468 realized demand had any real influence on retail prices. This, however, is exactly what can
469 happen when the price for standard offer service becomes the prevailing market price.

470 **Q. PLEASE SUMMARIZE WHY IT IS APPROPRIATE, AT THIS TIME, TO**
471 **DECLARE RATE 6L COMPETITIVE FOR THE 3MW AND GREATER**
472 **CUSTOMERS?**

473 A. There are a number of reasons why I view this action as timely. First, and most important, as
474 a result of the Restructuring Act, competitive conditions have improved for customers.
475 Specifically, I am referring to (regulated and required) access to third-party power and
476 energy and the wholesale market structure that is evolving in Illinois. Second, there is
477 empirical evidence that ComEd's largest customers are making choices and that alternative
478 suppliers are willing to provide energy services to these customers. Third, some of those
479 customers who have not "switched" are actually customers who have made competitive
480 choices in the past. I am referring to special contracts and contracts under Rate CS that the
481 Commission approved because these customers had clear competitive alternatives that
482 could be documented. These factors indicate that market forces are capable of providing
483 services to ComEd's largest customers and that, in the future, the competitive conditions in
484 Illinois are only going to improve. Finally, there are aspects of future rate design and cost
485 recovery that are currently open issues. For example, who will be required to pay for the
486 cost of procuring firm capacity for large users that switch to alternative suppliers when
487 market prices fall? At the close of the transition period this cost of doing business would
488 need to be recovered through one of ComEd's regulated rates, (e.g., either through delivery
489 services or through bundled rates for remaining customers). From a regulatory perspective,
490 it makes no sense to maintain costly firm generation for customers that clearly have the
491 ability to procure that power and energy on their own. This is simply a matter of fairness to
492 the remaining customers.

493 **Q. YOU MENTIONED THE "SPECIAL" CONTRACT CUSTOMERS AND THE**
494 **CHOICES THEY HAVE MADE IN THE PAST. WHY IS IT CRITICAL TO MOVE**
495 **FORWARD ON THIS PROPOSAL AT THIS POINT WITH RESPECT TO THESE**
496 **CUSTOMERS?**

497 A. There is a need to provide some certainty on the structure of the choices these customers
498 will have in the immediate future (*i.e.*, 3-6 years). I understand that many of these contracts
499 will be expiring in the next few years and it is important that the right institutional
500 framework is created to support customers making rational competitive choices going
501 forward. This is critical not only for the electricity market, but it is also important as these
502 customers represent some of the largest Illinois companies and they need to be provided the
503 correct institutions through which to procure this important input to production.

504 **IV. PROTECTIONS FOR CUSTOMERS ARE IN PLACE TO ENSURE THAT THE**
505 **PUBLIC INTEREST IS SERVED**

506 **Q. EARLIER IN YOUR TESTIMONY YOU MENTIONED THAT THE GENERAL**
507 **ASSEMBLY "HEDGED" ITS BETS BY MOVING SLOWLY IN THE**
508 **RESTRUCTURING OF THE ILLINOIS ELECTRIC MARKETPLACE. WHAT**
509 **SAFEGUARDS EXIST IN COMED'S PROPOSAL THAT "HEDGE" AGAINST**
510 **UNEXPECTED OUTCOMES?**

511 A. There are multiple "safeguards" that are built into the Act and this proposal that should
512 provide the Commission and customer groups with additional assurances against
513 unexpected outcomes. First, the Act requires a "grandfathering" for all customers affected
514 by this petition for three years past the time the tariff has been declared competitive. This
515 provides customers that have not chosen to switch suppliers with sufficient time to learn
516 about and explore their alternatives while at the same time providing the utility with some
517 certainty concerning its future obligations. Second, ComEd is not requesting that the tariff
518 amendments it proposes begin to affect customers until early summer of 2003. This
519 provides additional time for customers (and suppliers) to adjust to the new environment.
520 Third, if the Commission uses the operation of law process I recommend, it has the

521 authority under the Act to revisit this issue if in fact conditions change so drastically as to
522 warrant a further investigation. While the Commission has similar authority for other rates,
523 terms and conditions, ComEd is also proposing to file quarterly reports on customer choice
524 and RTO development that will bring information to the Commission concerning the
525 market environment in a timely and straightforward manner. Fourth, again as noted earlier,
526 the Act required that incumbent utilities provide real-time pricing tariffs under Article IX.
527 ComEd's Rate HEP is not being declared competitive as part of this filing and therefore
528 will remain available for all customers, including those affected by this petition, until such
529 time as a petition to declare Rate HEP as competitive is reviewed and approved under
530 Section 16-113 of the Act. These safeguards, and the operation of law procedure that I
531 recommend, provide for a reasonable transition under this proposal and will enable the
532 commission to closely monitor the evolution of the retail electric market in Illinois, which
533 will provide a basis for moving to declare services to other customers competitive as
534 electricity markets evolve.

535 **Q. WHAT DO YOU MEAN BY ALLOWING THE PETITION TO GO INTO EFFECT**
536 **BY OPERATION OF LAW?**

537 A. I am referring to the procedure contemplated by Section 16-113 of the Act whereby the
538 Commission can allow the declaration of a competitive service to go into effect without
539 making a decision as to the specific parameters outlined in that section. By choosing this
540 procedure, the Commission clearly preserves its ability to review this matter at a later time.
541 This is a clear benefit to both the Commission and customers and "hedges" the bet on
542 competition. Of course, in the alternative, the Commission could enter an order making a
543 decision based on the facts provided in the testimony of ComEd that the service is indeed
544 competitive and should be approved as such.

545 **Q. WHY DO YOU RECOMMEND THAT THE COMMISSION CHOOSE TO ALLOW**
546 **THIS PETITION TO GO INTO EFFECT AS A MATTER OF LAW?**

547 A. The reason this policy approach is beneficial for both the Commission and the public is that
548 it preserves a degree of flexibility that other alternatives do not offer. First, it signals the
549 Commission's intent to support the progress of the marketplace as the Act intended.
550 Second, it clearly preserves the right of the Commission to open an investigation should
551 problems arise in the future. In contrast, under the law if this proposal is rejected, the
552 Commission would foreclose the declaration for six months and slow the progress of
553 competition. By choosing to allow this petition to go into effect as a matter of law, the
554 Commission can simultaneously promote competitive developments without restricting its
555 ability to investigate this decision should market entry conditions warrant such an action.

556 **Q. HOW WOULD THE USE OF THIS PROCEDURE BE VIEWED BY THE MARKET**
557 **AND THE PUBLIC?**

558 A. I believe it would be viewed positively. Given that markets are developing at an uneven
559 pace, the act of declaring certain markets competitive should act as a catalyst helping other
560 markets to benefit from competitive developments. For example, all markets are
561 interconnected to a greater or lesser extent. As capacity is freed up from the service to one
562 submarket it becomes available to suppliers of other submarkets. As retailers' supply
563 portfolios are restructured, the cost effects of these restructurings will enable them to reach
564 submarkets where profit margins are thinner and hence expand to benefit a greater number
565 of retail customers. By allowing this petition to take effect by operation of law, the
566 Commission has the opportunity to see just how far down into the customer base these
567 competitive actions will permeate.

568 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY IN THIS DOCKET?**

569 A. Yes, it does.

570

**NATIONAL ECONOMIC
RESEARCH ASSOCIATES**

875 N. MICHIGAN AVE., SUITE 3650, CHICAGO, ILLINOIS 60611
TEL: 312.573.2800 FAX: 312.573.2810



ATTACHMENT KAM - 1

KARL A. MCDERMOTT

BUSINESS ADDRESS

National Economic Research Associates, Inc.
875 North Michigan Avenue, Suite 3650
Chicago, Illinois 60611
312-573-2822
e-mail: karl.mcdermott@nera.com

Dr. Karl McDermott is a Vice President with National Economic Research Associates, specializing in public utility regulation. Since Dr. McDermott came to NERA he has directed and participated in numerous projects in both the energy and telecommunications areas. His main focus has been the development of performance-based regulation mechanisms and advising clients on strategic regulatory options. Recent projects include evaluating and developing performance-based regulation plans and strategic regulatory options for Wisconsin Electric, Xcel Energy, Otter Tail Power, Peoples Energy, Louisville Gas and Electric and PowerGen along with MidAmerican Energy. In addition, Dr. McDermott also advises clients on competitive electric and gas markets including regulatory policy, generation location decisions, unbundling, tariff design and corporate reorganization. Recent projects include an examination of essential facilities debate for the Edison Electric Institute, tariff design and competitive electric generation sitting for Southern California Gas Company and Southern Energy, and a review of unbundling of metering and billing for Commonwealth Edison Company. Dr. McDermott has testified before numerous state regulatory commissions and legislatures along with the FCC and FERC.

Prior to arriving at NERA, Dr. McDermott served as Commissioner on the Illinois Commerce Commission during the negotiation of the Illinois restructuring law. He has also assisted the country of Poland since 1994 with their efforts to privatize and restructure their electric supply industry. As a Commissioner, Dr. McDermott also lectured extensively in Eastern Europe and South America on regulatory reform and restructuring.

During the six years that he served as Commissioner he has had an opportunity to evaluate alternative regulation proposals and the economic and social impacts of a number of new policies presented to the Commission. As a Commissioner, Dr. McDermott initiated the Commission's investigation into the alternative restructuring options and has made a number of presentations on restructuring issues.

Dr. McDermott received a B.A. in Economics from Indiana University of Pennsylvania, a M.A. in Public Utility Economics at the University of Wyoming, and a Ph.D. in Economics from the University of Illinois at Urbana-Champaign.

EDUCATION

Ph.D. 1990, Economics, University of Illinois at Urbana-Champaign
M.A. 1978, Public Utility Economics, University of Wyoming
B.A. 1976, Economics, Indiana University of Pennsylvania

Dissertation Topic: The Monetary Theory of Production of
John Maynard Keynes

Additional Education

Michigan State Public Utility Course; Michigan State University

Seminar on Austrian Economics at Marquette University, Milwaukee, Wisconsin,
conducted by the Institute of Humane Studies, Menlo Park, California

State of Illinois; Certificates in SPSS and advanced SPSS Computer Software Classes
and TSO Operations

Illinois Bell Telephone Seminars on Separations and Settlements, Embedded Direct
Analysis (EDA), Costs and Demand Analysis, and Engineering Characteristics of
Telecommunication System

EMPLOYMENT

1999- NATIONAL ECONOMIC RESEARCH ASSOCIATES, INC.
Vice President.

Directs projects in the energy and telecommunications fields in NERA's energy and
telecommunications practices. Representative projects include:

- **Wisconsin Electric Power Company:** Dr. McDermott has provided advice and analysis to WEPCO for several years including issues related to industry structure, energy efficiency and performance-based regulation.
- **Otter Tail Power Company:** Conducted analysis on the appropriateness of performance-based regulation plan including providing testimony to the North Dakota Public Service Commission.
- **MidAmerican Energy Company:** Dr. McDermott has provided advice and analysis to MidAmerican for several years including providing analysis and testimony on performance-based regulation and strategic options.
- **Northern States Power d/b/a Xcel Energy:** Conducted analysis on the appropriateness of performance-based regulation plan including providing testimony to the North Dakota Public Service Commission.
- **Illinois Power Company:** Provided strategic advice on unbundling of residential retail rates earlier this year in anticipation of the retail access beginning in 2002.

- **Northern Indiana Public Service Company:** Dr. McDermott lead team that provided analysis of the Midwest wholesale electric market. (material confidential)
- **Southern California Gas Company:** Performed analysis of peaking rate design for gas partial bypass customers including providing testimony before the CPUC.
- **Commonwealth Edison Company:** Provided testimony on the appropriate avoided cost calculations for the unbundling of metering services in Illinois.
- **Peoples Gas Company:** Provided strategic advice related to regulatory and commercial issues.
- **County of Albania:** Conducted a market restructuring study detailing strategies for liberalization of the Albanian electric sector.
- **Country of Macedonia:** Project manager for team that provided analysis on options for electric sector liberalization including options for market structure and detailed recommendations for tariff methodology for generation and

1998-1999 MCDERMOTT ASSOCIATES
President.

Worked for various clients in the electric, and telephone industry including the Edison Electric Institute, Georgia Power Co., Bell Atlantic, L. E. Burgess Consultants and the United States Energy Association.

1992-1998 ILLINOIS COMMERCE COMMISSION
Commissioner.

Domestic:

Served as Chairman of both the Telecommunications Policy Committee and Electricity Policy Committee. Served on the National Association of Regulatory Utility Commissioners (NARUC) Energy Resources and Environment Committee as the Chairman of its environmental subcommittee. While at the Commission, reviewed and voted on Illinois Bell Price-Cap plan, Peoples Gas PBR and MidAmerican Electric PBR. Made over one-hundred presentations and speeches on telecommunications, electricity, and natural gas industry topics. Served on the President's Global Climate Change Task Force, the Federal Energy Regulatory Commission's Pipeline Competition Task Force, and as a member of the Harvard Electric Policy Group.

International:

In addition to regular Commission duties, served as part of the United States Energy Association and USAID educational effort in Eastern Europe. Lectured in Argentina, the Czech Republic, Latvia, Poland, Romania, Russia, and Slovakia. Participated in two joint USEA/USAID and World Bank seminars in Vienna providing advanced regulatory training. In addition, the Illinois Commission has hosted visits with the above-listed countries as well as Bulgaria, Lithuania, and Estonia.

PROFESSIONAL ACTIVITIES

1985-1998 *Chairman of the Board, Center for Regulatory Studies, Inc.*

1985-1992 *President, Center for Regulatory Studies, Inc.*

One of three cofounders of the Center. Involved in fundraising, organization, and program development. Focused on the development of statewide energy planning options for the State of Illinois, the introduction of competition into the natural gas market, environmental issues in Illinois, and competition in the Illinois telecommunications market. Conducted research on the use of competitive bidding and avoided-cost pricing mechanisms to acquire electricity supplies, the role of demand-side management in electricity supply planning, and the use of incentive mechanisms and the role of incentive regulation in our current regulatory environment.

1988-1992 *Research Scientist, Argonne National Laboratory*

Served as an economic advisor to the office of Fossil Energy at DOE. Investigated possible ways to promote development of innovative emission control technologies in the electric utility industry as part of the Presidential Task Force on Regulatory Relief directed by Vice President Bush. Involved in writing a chapter in the State of Science and Technology Report No. 25 of the National Acid Precipitation Assessment Program (NAPAP) concerning the use of tradable emission permits to control acid rain. Performed work on incentive mechanisms to promote clean coal technology and the trading of greenhouse gas emissions.

Performed research on the nature of individual's risk perception regarding nuclear waste deposits on behalf of the office of Radioactive Civilian Waste Management at the Department of Energy.

1988-1990 *President Elect and President, Illinois Economic Association*
Organized the 1989 Illinois Economic Association annual meeting and presided over the meetings.

1989- *Instructor, NARUC Introductory Regulatory Training Program*
Instructed new public utility commission employees from various state commissions on the basic economic issues confronting regulators.

1986-1992 *Lecturer in Economics, Department of Economics, Illinois State University*
Taught both graduate and undergraduate public utility courses, Money and Banking, as well as introductory courses.

1984-1991 *Instructor in Economics, Parkland Community College, Champaign, Illinois*
Taught both Principles of Economics I and II, with a typical course load of two sections of 35-40 students per class.

- 1984-1986 *Teaching Assistant*, University of Illinois, Champaign, Illinois
Taught both Principles of Economics and Introduction to Econometrics. In the spring semester of 1985, was the supervisory assistant in charge of coordinating the Economics 101 assistance for Professor Fred Gotthiel.
- 1982-1988 Graduate School, University of Illinois, Champaign, Illinois
Completed all coursework towards Ph.D. and defended dissertation on 6/12/88. Fields of specialization were: Monetary Theory and Policy, Macroeconomic Theory, and the History of Economic Thought.
- 1983-1985 *Consultant*, Select Joint Subcommittee on Regulatory Reform, Illinois Legislature
Investigated the effects of the AT&T divestiture and FCC decisions upon Illinois telephone utilities and assisted in identifying issues that require legislative action. Presentation of issue reports to the telecommunications subcommittee and served on the local exchange subgroup in developing recommendations for a new Illinois Public Utilities Act.
- 1980-1982 *Consultant*, Governor's Sunset Task Force on Utility Regulatory Reform, Department of Energy and Natural Resources
Delivered both written and oral reports on the issues of power plant certification, monitoring of construction costs, and allocation of power plant cancellation costs.
- 1980-1983 *Economic Analyst III*, Policy Analysis and Research Division, Illinois Commerce Commission

Conducted research investigating the development and use of incentive mechanisms in utility regulation. Prepared and presented testimony on the use of incentive mechanisms in power plant construction.

Conducted research and assisted in developing testimony on the cost of service for electric generation to meet PURPA requirements.

Assisted in the development of proposals for PURPA innovative rates projects on productivity and time-of-use pricing; cost-benefit analysis. Assisted in the managing of consultants conducting the TOD cost-benefit study. Prepared and presented testimony on the time-of-day pricing standards to meet the PURPA requirements.

Prepared and presented testimony regarding the use of q-ratios in determining rates-of-return for Illinois Bell Telephone Company and testimony regarding appropriate cost and pricing methodology and philosophy for Illinois Bell Telephone Company.

Assisted in the investigation of capacity expansion, lifeline rates, efficiency measurement, and impact of deregulation in electric generation, water rate design; and investigated the impact of investment tax credit changes on utilities.
- 1978-1979 *Senior Research Associate*, National Regulatory Research Institute
Ohio State University

Conducted research in the areas of telecommunication licensee contract fees and cost of service, the effects of budget billing plans on utilities and consumers, and methods of monitoring fuel adjustment clauses.

Assisted in research regarding marginal and average cost pricing, time-of-use pricing, power plant productivity, and the examination of cost and price differences of Ohio municipal gas rates.

Assisted in the management of consultant subcontractors as well as supervising the presentation of cost and load research seminars.

- 9/79-12/79 *Lecturer in Economics*, Department of Economics, Ohio State University
Taught Macro Economic Principles to a class of approximately 100 students.
- 1977-1978 *Cost Analyst*, Action Computing, Laramie, Wyoming
Developed cost data for competitive pricing of bids for the provision of computer services provided by Action Computing.
- 1976-1977 *Graduate Research Assistant*, University of Wyoming, Laramie, Wyoming
Assisted professors in conducting research and teaching of Principles of Economics, while completing a Masters degree in Economics with specialization in Public Utility Economics and Industrial Organization Theory.

AWARDS

- 1986 Alpha Lambda Delta Outstanding Teacher of Freshman Award
at the University of Illinois
- 1983 Thrift Prize at the University of Illinois for the paper entitled "*The Allocation of Savings: An Investigation of Portfolio Composition of Chicago Households*"

PROFESSIONAL SOCIETY ACTIVITIES

Alpha Lambda Delta Honorary Society
American Economic Association
Transportation Public Utilities Group of American Economic Association
Illinois Economic Association

PUBLICATIONS

"The Essential Role of Earnings Sharing in the Design of Successful Performance-based Regulation Programs," forthcoming in *Towards Market Based Pricing of Electricity*, Kluwer Academic Publishers, London, UK. (with Carl R. Peterson)

"Is There a Rational Path to Salvaging Competition?" forthcoming in *The Electricity Journal*. (with Carl R. Peterson)

"Further State Electric Deregulation can be Guided by Gas Experience," forthcoming in *Natural Gas and Electric Power Industries Analysis*, R.E. Willett (ed), Financial Communications Company, Houston, TX, 2002, 343-372. (with Carl R. Peterson)

"Critical Issues in Consumer States Include Unbundling and Performance-based Regulation," in *Natural Gas Industry Analysis*, R.E. Willett (ed.), Financial Communications Company, Houston, 2000, 321-343.

"Are Residential Local Exchange Rates Too Low? Drivers to Competition in the Local Exchange Market and the Impact of Inefficient Prices," with A. Ros, in *Expanding Competition in Regulated Industries*, M. Crew (ed.), Kluwer Academic Publishers, Boston/Dordrecht/London, 2000, 149-168.

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PUBLICATIONS: CONFERENCE PAPERS

The Efficiency of the Inefficient Firm Standard in Setting Network Access Charges with Carl Peterson. Prepared for 20th Annual Advanced Workshop in Regulation and Competition, Rutgers University (May 25, 2001).

Designing the New Regulatory Compact: The Role of Market Processes in the Design of Dynamic Incentives with Carl Peterson. Presented at *Incentive Regulation: Making it Work*, Advanced Workshop in Regulation and Competition, Rutgers University (January 19, 2001).

The Use of Nontraditional Universal Service Programs in a Competitive Local Exchange Market with Cindi Schieber. Presented at the National Association of Regulatory Commissioners Biennial Conference (1996).

Incentive Mechanisms as a Strategic Option for Acid Rain Compliance with D. W. South, and K.A. Bailey. Presented to the Future of Incentive Regulation in the Electric Utility Industry (November 1991).

Role of Emission Allowances in Utility Compliance Decisions with D. W. South, and K. A. Bailey. Presented at the Eighth Annual International Pittsburgh Coal Conference (October 1991).

Clean Coal Technology and Emissions Trading: Is There a Future for High Sulfur Coal Under the Clean Air Act Amendments of 1990? With K. A. Bailey, and D.W. South. P. R. Dugan, D. R. Quigley, Y. A. Attia (eds.), *Processing and Utilization of High Sulfur Coals IV*, proceedings of the Fourth International Conference on Processing and Utilization of High Sulfur Coals, Idaho Falls, ID., sponsored by the U.S. Department of Energy, et al., Elsevier Science Publishing Co. Inc., New York, NY.

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Achieving Efficiency Through Emissions Trading: Paradoxes, Misconceptions and Market Performance with D. W. South. Presented at National Association of Regulatory Utility Commissioners, Committee on Electricity, Subcommittee on Environment and Efficiency, San Francisco (July 1991).

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Exhibition, Air and Waste Management Association, Vancouver, British Columbia (June 1991).

Regulatory Incentives: A Means to Accelerate Clean Coal Technology Adoption for Acid Rain Compliance with D. W. South. Presented at Compliance and Emissions Trading Strategies: Facing Acid Rain Tradeoffs, Center for Regulatory Studies, Chicago, IL (June 1991).

Implementing Emissions Trading: Regulatory and Compliance Planning Issues with D. W. South. Presented at the Workshop on Implementing the Electric Utility Provisions of the Clean Air Act Amendments of 1990: Midwestern State Public Utility Commission Issues, National Regulatory Research Institute, Chicago, IL (May 1991).

Clean Coal Technology and Acid Rain Compliance: An Examination of Alternative Incentive Proposals with D. W. South. Presented at the American Power Conference, Chicago, IL (April 1991).

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The Future of Clean Coal Technology: An Evaluation of the Proposed Incentives in S. 1630 with D. W. South. Presented at the Seventh Annual International Pittsburgh Coal Conference, Pittsburgh, PA (September 1990).

The Future of Clean Coal Technology: An Evaluation of the Proposed Incentives in S. 1630 with D. W. South. Presented at the Seventh NARUC Biennial Regulatory Information Conference, Columbus, OH (September 1990).

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While at the Illinois Commerce Commission, Dr. McDermott gave over one-hundred presentations on a variety of topics in the telecommunications, electricity and natural gas industries.

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